

INTERMOUNTAIN POWER PROJECT
A DEVELOPMENT OF INTERMOUNTAIN POWER AGENCY

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June 17, 1987

Mr. F. Burnell Cordner
Executive Secretary
Utah Air Conservation Committee
288 North 1460 West
Salt Lake City, Utah 84116-0700

SPM #1987

Dear Mr. Cordner:

Intermountain Generating Station (IGS)
Coal Sample Preparation Building

This is to advise you of a Coal Sample Preparation Building (CSPB) at the IGS. We believe that this facility is not reasonably expected to become a source of air pollution due to its minimal use, however, the following information is provided for your independent evaluation.

The CSPB is used to prepare samples of coal for physical and chemical analyses. The analyses are performed in a separate building. Preparation of coal samples includes crushing, pulverizing, screening, and splitting (riffing). Typically, four 25-pound samples are processed per day for a total of 100 pounds per day. The day-to-day sample preparation process is outlined below:

1. Coal samples are hand delivered to the CSPB. Samples are 25 pounds each of eight mesh crushed coal.
2. The 25 pounds are riffled to obtain a 1,000-grams sample.
3. The 1,000-grams sample is pulverized to minus 60 mesh size.
4. The 1,000-grams of pulverized coal are riffled to obtain 100 grams.
5. The 100-grams are bagged and sent to the laboratory for analysis.

Special sampling procedures which require the use of the crusher and the screener equipment are performed approximately four times per year.

Mr. F. Burnell Cordner

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The dust-producing coal preparation equipment (crusher, pulverizer, screener, and riffles) are located within dust cubicles. The dust collection equipment, located outdoors, takes suction from the dust cubicles. The dust collector will be operated continuously whenever a dust producing machine is being used. The typical operating schedule for using the dust collection system is two hours per day, seven days a week.

The expected coal dust concentration at the collector inlet is 0.1 grains per cubic feet of inlet air. At the design air flow rate of 0.610 cubic feet per minute, an inlet rate of seven pounds per hour is expected. The dust collector is designed to be 99.9 percent efficient. The resultant outlet concentration at this efficiency is 0.0001 grains per cubic feet. This is an emission rate of 0.007 pounds per hour. The above concentrations are based on operation at 70°F.

The air cleaning device is a filter housing with cylindrical cartridge filters. The unit is designed for continuous operation and is self-cleaning. The filters are constructed of nonwoven, synthetic and cellulose fabric, carbon impregnated, and corrugated into cylinders. The unit is designed for an air flow rate of 8,610 cubic feet per minute.

The emissions occur from ductwork at approximately three feet above ground level, six feet north of the CSPB. The discharge is not directed toward any existing structures.

Also enclosed are the plans and the specifications of the CSPB.

If you or your staff require any additional information, please contact Mr. Naim Syed at (213) 481-5699.

Sincerely,



RODNEY J. CLARK
Site Project Manager

NS:tas

Enclosures

cc: Mr. Naim Syed w/Enclosures